


Sam Huddart

Enthusiast Programmer & Student

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EXPERIENCE

UNIVERSITY OF KENT | STUDENT TUTOR

Sep 2022 – Current | Canterbury, Kent

- Tutor and Assist year-one & two undergraduates in programming labs.
- Supervise and Assist, students in school-organised "homework club"
- Engage in talks with the BCS (British Computer Society)

WAREMOSS LTD | PAYROLL ASSISTANT

July 2016 – March 2019 | Uckfield, East Sussex

- Created VBA Macros to automate manual tasks of high volume.
- Produced Spreadsheets to help formulate payroll data
- Automate email creation, formatting, and to contribute to the transition to a paper-less department

RECENT PROJECTS

LUNA | RUST - DISTRIBUTED MINECRAFT SERVER

2020-2021

2024-

- An experimental concept for a scalable game server, that allows for large number of concurrent players without hitting performance issues.
- A learning experience in the design and implementation of protocols and networks, which resulted in the creation of my own data format "tycho"
- An introduction into reverse engineering and debugging network protocols.

WATCH/FLOW | RUST & TYPESCRIPT - WEB P2P FRAMEWORK

2022

- A framework for negotiating and establishing secured connections between web clients.
- Leveraging WebTransport, WebRTC and WebCrypto to create cryptographically signed "rooms".
- An experience into fast, iterative development - planning and dividing smaller components, iterating until suitable.

JWTEA | RUST & WASM - HIGH PERFORMANCE JWT ENCODING AND VERIFICATION

2022

- Built to provide a cohesive API for developers, putting both ease of use and performance at the same table.
- WASM bindings for Javascript, allowing fast JWT access on the web and in JS server applications.

YETI | RUST - SCRIPTING LANGUAGE

2023

- An opportunity to learn about language, syntax, and interpreter design, while writing a tokeniser, lexer and an interpreter from scratch.
- Working efficiently as a team by using ticketing and issue allocation.

SKILLS

PROGRAMMING

Proficient:

Rust • Java • Python • JavaScript

Experienced:

Go • C# • TypeScript • SQL • PHP • HTML • CSS

Familiar:

C • C++

LIBRARIES/Frameworks

PostgreSQL • MongoDB • Redis • Kafka •

TOOLS/PLATFORMS

Git • Docker • Webpack • Cloudflare Workers • LLDB

EDUCATION

UNIVERSITY OF KENT

BSC COMPUTER SCIENCE

Sep 2021 - Present | Canterbury, Kent

UCKFIELD COLLEGE

A-LEVEL COMPUTER SCIENCE

A-LEVEL FURTHER MATHS

Sep 2019 - July 2021 | Uckfield, E. Sussex
Computer Science - A*

REFERENCES

Chris Bashford,

Computing - Uckfield College

✉ c.bashford@uckfield.college

Sally Statham,

Payroll Assisant - Waremass

✉ sally.statham@kamsons.co.uk

INTRESTS

Rust London
Kent Computing Society
TinkerSoc